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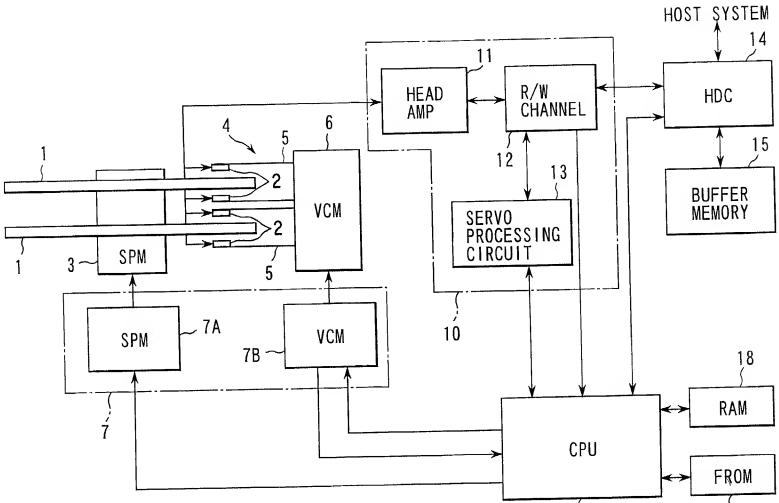

FIG. 1

2012-156507

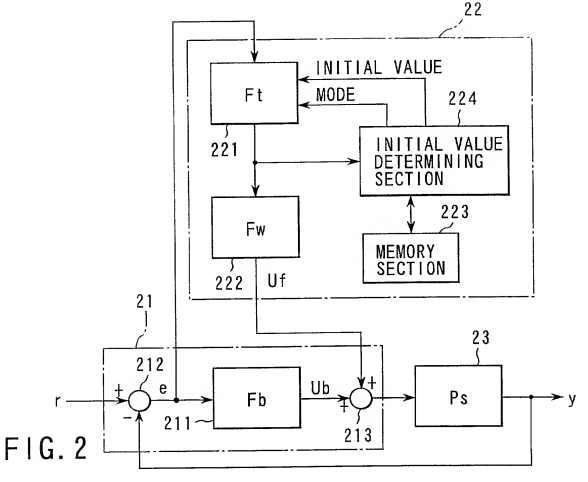

FIG. 2

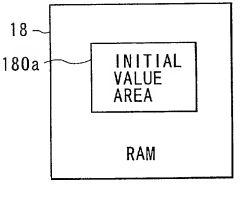

FIG. 3A

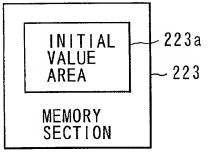

FIG. 3B

20120705085007

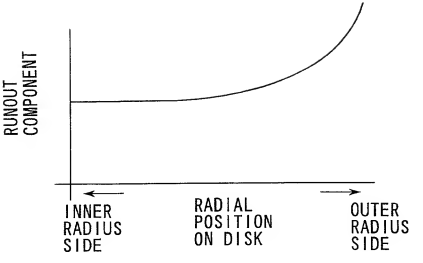

FIG. 4

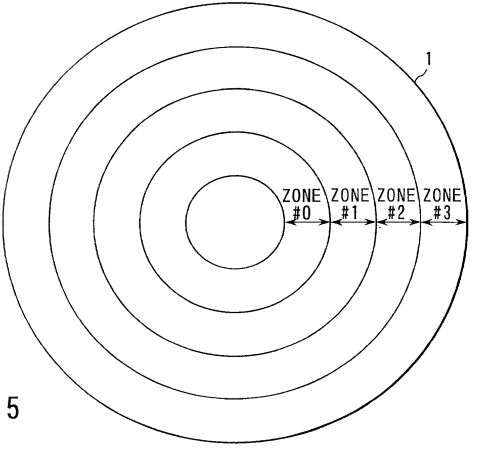

FIG. 5

223a(180a)

HEAD NUMBER	ZONE NUMBER	INITIAL VALUE
0	0	
	1	
	2	
	3	
1	0	
	1	
	2	
	3	
3	0	
	1	
	2	
	3	

FIG. 6

COPYRIGHT

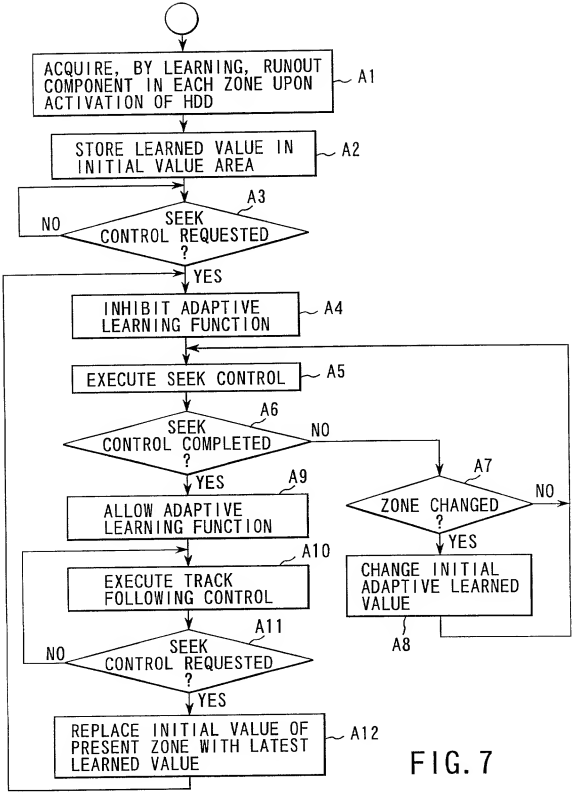

FIG. 7

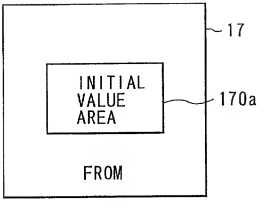
17
INITIAL VALUE AREA
170a
FROM

FIG. 8

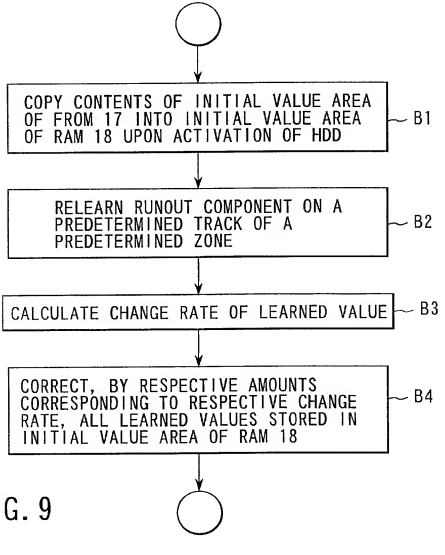
COPY CONTENTS OF INITIAL VALUE AREA OF FROM 17 INTO INITIAL VALUE AREA OF RAM 18 UPON ACTIVATION OF HDD
B1
RELEARN RUNOUT COMPONENT ON A PREDETERMINED TRACK OF A PREDETERMINED ZONE
B2
CALCULATE CHANGE RATE OF LEARNED VALUE
B3
CORRECT, BY RESPECTIVE AMOUNTS CORRESPONDING TO RESPECTIVE CHANGE RATE, ALL LEARNED VALUES STORED IN INITIAL VALUE AREA OF RAM 18
B4

FIG. 9

2007-05-01 10:05:52 JPOOO

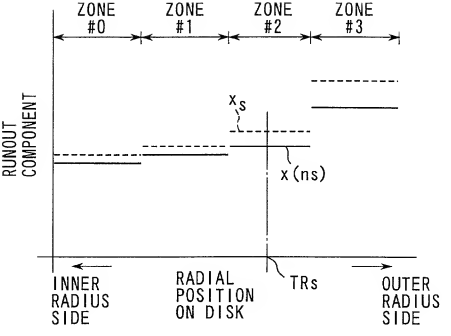

FIG. 10

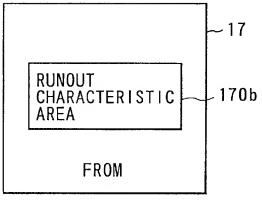

FIG. 11A

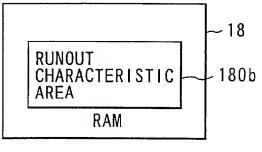

FIG. 11B

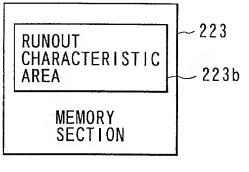

FIG. 11C

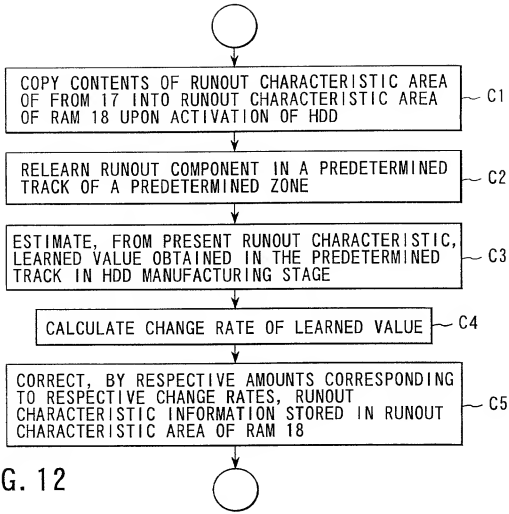
COPY CONTENTS OF RUNOUT CHARACTERISTIC AREA OF FROM 17 INTO RUNOUT CHARACTERISTIC AREA OF RAM 18 UPON ACTIVATION OF HDD
C1
RELEARN RUNOUT COMPONENT IN A PREDETERMINED TRACK OF A PREDETERMINED ZONE
C2
ESTIMATE, FROM PRESENT RUNOUT CHARACTERISTIC, LEARNED VALUE OBTAINED IN THE PREDETERMINED TRACK IN HDD MANUFACTURING STAGE
C3
CALCULATE CHANGE RATE OF LEARNED VALUE
C4
CORRECT, BY RESPECTIVE AMOUNTS CORRESPONDING TO RESPECTIVE CHANGE RATES, RUNOUT CHARACTERISTIC INFORMATION STORED IN RUNOUT CHARACTERISTIC AREA OF RAM 18
C5

FIG. 12

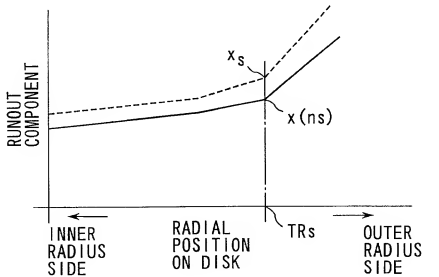
RUNOUT COMPONENT
x_s
x(ns)
TRs
INNER RADIUS SIDE
RADIAL POSITION ON DISK
OUTER RADIUS SIDE

FIG. 13